Silent Night® User's Manual

Silent Night®

ZEPA-500 AIR PURIFIER

Dust

Mold Spores

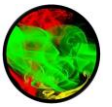
Dander

Smoke

Allergens

Germs

Viruses


VOC's

Breathe with Confidence®

"Capturing millions of unwanted biologicals and allergy triggers for pennies per day"

800PUREAIR

Table of Contents

Introduction	Page 3
General Safety	Page 4
Setup & Operation	Page 4, 5
Maintenance	Page 5
Specifications	Page 5,6
Biological Challenges	Page 6
4 Functional Stages	Page 6,7
ZEPA Filtration	Page 7
Our Inventor	Page 8
Applications	Page 8
Warranty	Page 9,10
Testimonials	Page 10
Changing Filters	Page 11
Health Disclaimer	Page 12

CERTIFICATIONS

MET	MET has certified, listed, and labeled products for electrical product safety for 40+ years. In that time, MET has certified thousands of products for compliance to electrical safety standards. This translates into millions and millions of units sold in the U.S. and Canada labeled with the MET mark.
NRTL	This product has been certified by NRTL (Nationally Recognized Testing Laboratories), a safety testing facility recognized by the Occupational Safety Health Administration (OSHA) and in compliance with 29 CFR. 1910.7.
ENERGY STAR	This product earned the ENERGY STAR by meeting efficiency guidelines set by the U.S. Environmental Protection Agency. The efficiency of this ENERGY STAR qualified model is measured based on a ratio between the unit's CADR for dust and the electricity it consumes, or CADR/Watt.
IBR LABORATORIES	IBR is an A2LA accredited, independent, laboratory providing testing services for the detection and analysis of particulate contamination and verification of filtration performance. Laboratories are located in USA and England.
CE	CE marking indicates compliance with EU legislation, and enables a product's free movement within the European market (European Economic Area and European Free Trade Association).

Introduction to Silent Night®

Congratulations on choosing the **Silent Night ZEPA-500** fanless air purifier. The power of this machine is that it will capture millions of unwanted biologicals and allergy triggers for just pennies per day.

Its technologies have been validated by leading university scientists, and reported in respected scientific journals. After several air purifier inventions, engineer Stan Weinberg says that his patented fanless Silent Ion-Drive technology is the achievement of his lifetime.

The Silent Night ZEPA-500 is unmatched for effectiveness, economy, low operating cost and noise level. Silent Night's virtually silent technology will prove time and time again to outperform most HEPA products, effectively capturing all particle sizes including PM 2.5 with minimal energy usage.

(NRTL) Nationally Recognized Testing Laboratories, certified by (AHAM) American Home Appliance Manufacturers, established Silent Night's official (CADR) Clean Air Delivery Rate to be 311 (*cigarette smoke rated).* That means it purifies a 500 square foot room 4.7 times per hour (or 112 times every 24 hours) with only 39 watts of power! Testing has been done with worst case (hardest to capture) MPPS (most penetrating particle size) of .3 microns, which was used in the Centers for Disease Control and Prevention (CDC) Intertek and IBR independent laboratories.

Silent Night's testing protocol includes air flow, room size, distance from the appliance, time of operation, and the reduction of particles down to .1 microns in diameter. Many viruses and all bacteria fall in the ranges that are measured. We also capture mold spores, pollen, pet dander, smoke particulate, skin flakes and dust mites.

The unit is most effective in a closed room such as a bedroom, office, etc. More than one unit may be necessary in larger areas where new pollution is constantly added by life's activities.

The **ZEPA-500** was designed, engineered, assembled and certified in the **USA**. Unlike most air purifiers, it is designed to run 24/7 at maximum effectiveness using only 39 Watts of electricity. Now you can Breathe with Confidence® knowing your Silent Night® is removing millions of airborne particles, dust, mold spores, dander, smoke, pollen, allergens, germs, viruses and most volatile organic compounds (VOC's) every minute of every day!

General Safety

1. Do not open or disassemble the unit. No user-serviceable parts inside.
2. Not for outdoor use. Keep away from moisture, spills, open flame, extreme heat.
3. Use only the adapter provided. A substitute adapter may harm the unit and will void your warranty.
4. Operate 9 inches from any wall and not on or near metal surfaces.
5. When using the range extender, operate 10 feet from any wall to avoid gray-wall and do not operate on or near metal surfaces.
6. To avoid static shock, do not touch the unit or the range extender directly. This harmless static effect is similar to dragging your feet across the carpet.
7. Operating closer than 9 inches from your body can cause a harmless static discharge when you touch a grounded surface.
8. Do not operate within 2 feet from any computer equipment.
9. Extension cords are safe to use with your unit but be cautious; it can become a tripping hazard.

ELECTRICAL SAFETY: Electrical safety features are incorporated to prevent shock hazards. As to shock potential, the Department of Energy classifies static charge potential below 250 mJ (millijoules), the level of carpet static, as safe for humans. The ZEPA-500 model is well below this level.

OZONE SENSITIVITY: The Silent Night ZEPA-500 meets ozone safety standards in California, Canada, and around the world.

Installation & Operation

1. Review the General Safety instructions before operating your unit.
2. Insert supplied DC power jack into receptacle on the unit's right side, with the power switch OFF (O).
3. Insert universal adapter prongs into AC outlet.
4. Electrostatic filters located at the base of the unit are installed on tracks for quick and smooth replacement. (Refer to page 11)
5. On rocker switch press "|" for ON and "O" for OFF. When ON (|), you'll observe a low intensity blue light inside the front grille.

8. To activate range extender, simply remove the ionizer cap. (See page 6)
9. If you hear internal noise such as crackling is likely due to build-up on the wires. Simply turn off your unit, invert 3 times, resume power.
10. As long as the orange light can be seen in a lighted room, your Silent Night is working properly.

Did you hear a rattle in your shipping box?
No problem. Anytime the unit is inverted, you will hear Silent Night's wire-cleaning beads slide up and down which effectively removes the unit's internal particulate.

General Maintenance

Internal cleaning system: An internal cleaning mechanism works at your bidding. If a crackling sound is heard inside your machine, (caused by internal dust), this is normal and should go away on its own. For faster results, simply unplug the machine and invert it three times in succession. You will hear glass beads slide along the ionization wires and scrape away adhered particulate.

Filter Maintenance: To extend filter life, remove the front and back filters and vacuum weekly for the first month, then twice a month thereafter. Filter changes are recommended every 6-12 months. (See page 11).

ZEPA-500 Specifications

Technology	Patented Advanced Fanless Electrostatic Ion-Drive Technology. An array of ionization wires and a high-output hexagonal cage engine generate high air flow with minimal power consumption
Electrical	39 Watts, Worldwide use adapter accepts 90V to 240V. Rated 320/39 or 4 times the Energy Star requirement
CADR	Clean Air Delivery is 311, cigarette smoke rated
Safety	Complies with Intertek Labs, IBR Labs, MET Labs, UL -867, Energy Star
Universal Adapter	A 26v (class two) worldwide use, 1.5 amp DC switching adapter assures no direct line voltage contact and auto shutdown in unsafe circumstances
CE Marked	This mark is the manufacturer's declaration that a product meets the requirements of all applicable European Economic Area directives
Case	Case is UL type VO ABS plastic with appliance finish
Dimensions, Weight	14.5" Height x 12.5" Width x 6.5" Depth, 7 lbs.
Contaminant Removal	Dust, allergens, germs, bacteria, viruses, smoke, pet dander, fabric fibers, mold spores, odors, VOC's.
Coverage	Exceptionally effective at close proximity, such as on a night stand in a bedroom while sleeping. The unit is also very effective in closed rooms up to 500 sq. ft.

Filters	ZEPA (Zephyr Electrostatic Particulate Arrestment) uses two charge-sensitive anti-microbial filters.
Ozone Output	Nearly zero with permanent factory installed catalyst filters
Noise	Virtually Silent. Less than 0.2 decibels.
(RE) Range Extender	The RE is an optional device included with your unit that effectively expands the coverage to 500 square feet. It can quickly be snapped in or out at the top left corner of the hexagonal grill. Leave the ionizer cap on (turns extra ionization **off**) if using in a bedroom, motorhome or small office. Remove the cap from the ionizer to boost your unit's range (extra ionization **on**).
Warranty	Five year limited warranty (see page 8-9)
Cleaning	Special internal mechanism permits user-initiated cleaning via product inversion without opening the machine. Remove front and back filters and vacuum weekly for the first month, then twice a month thereafter. (See general maintenance on Page 5 and Page 11 for filter changes).
Applications	Home, bedrooms, family living areas, apartments, offices, work stations, dorms, doctors waiting rooms, truck cabs, RV, boats, yachts, travel trailers, campers, etc.

Biological Challenges

The Silent Night ZEPA-500 captures millions of unwanted biologicals and allergy triggers. These biological challenges include germs, viruses, bacteria, mold spores, allergens, dander, pollens and dust.

According to the Center for Disease Control (CDC), National Institute for Occupational Safety and Health (NIOSH), and aerosol scientists, capturing or eliminating the .3 micron (μ) test particles, you will eliminate most airborne biological agents that are allergenic, toxic, or infective. The ZEPA-500 is highly effective in any indoor pollution scenario.

CDC/NIOSH Biological Germ Procedure Testing (42CFR84 on page 24) states, "By using aerosols of the most penetrating particle size range (MPPS: .3 microns), the efficiency level against all [biologicals] (germs) will meet or exceed the certified efficiency level."

Therefore, because Silent Night will remove .3 micron particle size and smaller, it protects us from breathing particle types that are most harmful to our health.

ZEPA 500's Four Functional Stages

1. The ZEPA anti-bacterial rear pre-filter captures millions of particles per day.
2. Silent Night's fanless engine has two phases. First is an array of charged wires.
3. The engine's 'accelerator stage' looks like a metallic cage. This proprietary lightweight system draws only 39 watts of power.
4. Unlike Brand-X air filters, Silent Night's ultra-pure air is gently and silently diffused into your environment so you can breathe with confidence and sleep restfully.

- ❖ Brand-X products that are fanless will likely have 95% less Clean Air Delivery Rate (CADR).
- ❖ Noise, turbulence and light are known sleep interrupters. All of these issues are avoided with Silent Night. A competitor product will not have an ambient light tracker whereby the units' light dim in a darkened room. These air purifiers have noisy fans that will create a turbulent air flow that stirs particles around in your environment. A noisy fan speed does not mean high effectiveness, which a particle counter can easily prove.
- ❖ Silent Night's zephyr-gentle air flow gives the ZEPA filters 'capture time' so more particulate

Silent Night's 4 fanless stages move hundreds of cubic feet of air per minute (CADR certification is 311). ZEPA-500 tests have produced perfect or near-perfect air at .3, 1 and 5 µ measurements. No other air cleaning technology can produce results equal to Silent Night.

Silent Night's Double ZEPA® Filtration

DOUBLE ZEPA® FILTRATION

Why ZEPA Filtration? An average adult's lung surface area is the size of a tennis court, and normal breathing is 12 inhalations per minute—about 6 liters of air. **Every HOUR, we inhale 12.7 cubic feet of air (and its pollutants!).** Children have smaller lungs but their breathing rate is much higher. It makes sense to have a ZEPA-500 in every closed room where we or our loved ones spend a lot of time.

There are billions of particulate at rest in carpet, drapes, furnishing etc. that will not be in the breathing space unless stirred up by high speed fans or environmental factors, such as open windows from nearby occupants or traffic. This "kitchen mixer" effect should be avoided as best as possible as it introduces more particulate to a breathing space. This recommendation is applicable to all air purification systems.

Top Filter Efficiency without Fan Noise: Standard air cleaners must be run at their maximum (noisiest) setting to produce top results. Silent Night always runs on Maximum effectiveness, yet its amazing fanless ion engine and Double ZEPA Filtration capture nearly 100% of particulate, silently!

- ☑ The highest particulate capture efficiency with no fan.
- ☑ Virtually Silent operation. (Fan-type units are loud and intrusive).
- ☑ Super-low cost of operation. Captures millions of unwanted biologicals and allergy triggers for pennies per day.
- ☑ ZEPA-500 always operates at maximum performance providing the highest particulate capture efficiency.

Our Inventor

Engineer Stanley Weinberg has many inventions, but he is best known for having invented the world's first wearable air purifier. As a result, Weinberg received impressive media attention on Dateline NBC, CNN, the Oprah Winfrey Show, the Today Show, CBS News, and in many newspapers and magazines. Millions of Weinberg's products continue to be sold in America and around the world, especially throughout Asia, where bird flu and SARS heightened public and governmental awareness of airborne hazards. See this video featuring Stan Weinberg on Dateline NBC:

The **Mini-Mate** hangs around your neck and defuses ions that repel viruses, bacteria, dander, pollen, smoke, and other pollutants in your breathing zone.

Applications

Breathe with Confidence® in Bedrooms, Offices and More!
Statistically, adults do one-third of their breathing in each of two very important locations: their bedroom and their workplace. Therefore, it is critical that we do all we can to prevent the barrage of thousands of invasive pollutants that threaten the human immune system every day. The ZEPA-500 substantially lowers the concentrations of bacteria, viruses, mold spores, allergens, dander, pollen, pet dander and more. You will also find Silent Night to be very effective in other living spaces: family living areas, truck cabs, boats, motor homes, etc.

Five-Year Limited Warranty

YEARS ONE and TWO: If your Silent Night air purifier fails due to manufacturer defect for two years from the date of purchase, 800PureAir will repair or replace your air purifier.

YEARS THREE, FOUR AND FIVE: If your Silent Night air purifier adapter power supply fails within five years from the purchase date, 800PureAir will repair or replace your 800PureAir will repair or replace your unit.

This Five-Year Warranty applies to U.S. and Canadian residents only.

Warranty Continued

This Warranty Does Not Cover:

- Shipping to 800PureAir.
- Shipping from 800PureAir outside the U.S. and Canada. U.S. and Canadian Reps may sell and ship to buyers in other countries and this warranty will be in effect, however the customer or Rep will pay shipping both ways.
- Products sold by foreign Reps or Affiliates in other countries. (Each country's warranty rules will apply.)
- Pre-owned purifiers, eBay purchases or purchases from anyone other than an Authorized 800PureAir Retailer.
- Problems due to improper installation, misuse, abuse, neglect, unauthorized repair, accident, disassembly, shipping, unauthorized alterations or modifications made to your purifier or any cause not the responsibility of 800PureAir.
- Replacement of ZEPA filters.

This Warranty is void if:

- Any adapter or filter is used other than the ones provided by 800PureAir.
- Failing to replace the filters regularly

Note: To receive Warranty Service, you must provide your [1] name, [2] shipping address, [3] phone number, [4] purchase or installation date and [5] Authorized Retailer's name. You will pay to ship your purifier to 800PureAir and 800PureAir will repair or exchange it, and pay to ship it back to your U.S. or Canadian address.

Warranty Service: Pureair800@aol.com

Benefits of Joining the ZEPA Filter Club:
Becoming a member of the ZEPA Filter Club will ensure your unit is working at its optimum performance. And, you will never have to worry about hunting down and ordering filters - because you will automatically receive your replacement filters every six months. The only cost is the price of your filters. No hidden fees. No shipping charges. Cancel anytime. Non-members must pay shipping charges. For more information or to sign up, contact your manufacturer's representative.

Testimonials

"I developed a cough after I got a long haired cat and let it sleep on my bed. My doctor put me on an inhaler that I used twice a day. But after only a couple months using the Silent Night, I no longer needed the inhaler! My doctor says I have no wheeze and my breathing is normal. This is only an anecdote, but I like your product and want to say so. And I still sleep with the cat." - ***Karen Schwelling, Alabama***

"Two days after our Silent Night was in my bedroom I no longer had the post nasal drip problem that has bothered me for years." ***- Bill Krull, Texas***

"I am an early fifties guy with asthma and sleep apnea. For years I have been sleeping with a CPAP mask (Continuous Positive Airway Pressure) over my face to keep me breathing through the night. Based on particle count testing I knew Silent Night reduced allergens and dust in my room by 90+% and would be good for anyone to breathe, especially asthmatics. But would it have a benefit through my CPAP mask? My CPAP air tested 77% cleaner when Silent Night was running. I have done test after test using 1-hour average results to be as accurate as possible. **- Jim Dickerson, Virginia, pet food store owner**

"I spent 20 years on the faculty of the University of Illinois at Urbana-Champaign. My academic areas of interest were Environmental Sciences and Natural Resources. I developed and taught 18 courses during my career. My main motivating factor during the span of that career was to change the world and make our environment better. After retiring I decided to focus my environmental work more at the individual level. Silent Night suits me perfectly." **- T.J. Jacob, Colorado**

Third morning with the Silent Night: *"My husband who has fought cancer for 35 years (lung cancer the last 4) did not cough up a thing for the first time in the 11 years that I've known him! He didn't know I bought it. I hid it in our bedroom and two days later he did not cough up anything! As for me, I had sinus surgery two weeks ago and the Doc said it would take 6 months to feel my best. Well, I feel great NOW! My doc is the #1 sinus guy at our highly respected hospital and was amazed with my recovery. We handed him a copy of the manual and he asked, "it's quiet?" and we said yes. He then thanked us so much for the information. He loved it."* - **Steve and Victoria R, WA**

"My 10 year old dog has a severe heart condition which causes a persistent cough. The Silent Night air purifier has helped her cough immensely. The other night I had unplugged in the unit and put it in the other room. When I laid down for bed, our dog began to whimper. I couldn't find out what was wrong with her and thought – maybe she is missing the air purifier. Sure enough, once I placed it in front the near her bed, she was absolutely content. Thank you Silent Night! – **Brent and Havana B, CA**

Changing Filters

Filter-changing Steps

Fig. 1

1. To remove or to insert the filters (Fig. 1), turn the power switch to OFF **(O)** and unplug the cord from the wall.

2. To remove either the front filter or back filter, Lay the unit flat on its back and pull either front or back filter straight out of the machine.

Fig. 2

3. To insert a new filter, reverse this procedure while making sure the both filters are secured and flush with the base of the unit when upright. (See Fig. 3)

Fig. 3

4. Turn the power switch to the ON position (**|**) and Breathe with Confidence!

Double ZEPA Filtration: *The pre-filter (at the back of the unit) is designed to keep the unit's interior clean, while the "finishing filter" (at the front of the unit) is designed to capture not only large particles, but more importantly, millions of .3 micron size and smaller - which are the most harmful to our health.*

Filter Benefits and Life Expectancy: ZEPA-500 filters protect the unit's interior and assure top performance. Six months of solid performance is normal. However, if you live in or near high particulate conditions (heavy pollen, near a freeway, etc.), if you smoke, own pets or are remodeling, etc., your filter life will shorten. If you own a Particle Counter, you can test the capture efficiency and know exactly when your filters need changing. To extend filter life, vacuum the front and back grilles weekly, and vacuum both filters weekly for the first month, then twice a month thereafter. To make sure your unit is working at its optimum performance, refer to "*Benefits of Joining the ZEPA Filter Club*," page 9.

Health Disclaimer

The **Silent Night ZEPA-500** is not a medical product and no claims are made or implied that it can prevent, mitigate, treat, or cure any human disease.

To the extent cleaner air reduces the concentration of toxic, allergenic, and infective breathable particles…including germs, pollens, dust, and mold spores…it lowers the probability of inhaling critical levels (sometimes called trigger levels) of these airborne challenges.

"The expected number of cases among a given number of susceptible persons is proportional to the average concentration of infectious droplet nuclei in a room and the probability."

– Dr. Janet M. Macher, *Governmental Industrial Hygienists (ACGIH). Quote from page 96, Bio Aerosols Assessment and Control, 1999.*

©Copyright 2014 Silent Night® LLC